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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/628,533	07/29/2003	Tomonori Imamura	116680	3539	
25944 75	590 12/19/2005	EXAMINER			
OLIFF & BERRIDGE, PLC			KALAFUT, STEPHEN J		
P.O. BOX 1992 ALEXANDRIA			ART UNIT	PAPER NUMBER	
	.,		1745		
			DATE MAILED: 12/19/200	DATE MAILED: 12/19/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Applic	ation No.	Applicant(s)					
		10/62	8,533	IMAMURA ET AL	<b></b>				
Off	ice Action Summary	Exami	ner	Art Unit					
			en J. Kalafut	1745					
The M Period for Reply	IAILING DATE of this commun	nication appears on	the cover sheet w	vith the correspondence a	ddress				
WHICHEVEF - Extensions of till after SIX (6) MC - If NO period for - Failure to reply Any reply received.	IED STATUTORY PERIOD F R IS LONGER, FROM THE N me may be available under the provision: DNTHS from the mailing date of this come reply is specified above, the maximum s within the set or extended period for reply yed by the Office later than three months erm adjustment. See 37 CFR 1.704(b).	MAILING DATE OF s of 37 CFR 1.136(a). In n munication. tatutory period will apply any will, by statute, cause the	THIS COMMUN o event, however, may a nd will expire SIX (6) MO application to become A	ICATION. reply be timely filed  NTHS from the mailing date of this ABANDONED (35 U.S.C. § 133).					
Status									
1)☐ Respoi	nsive to communication(s) file	ed on .							
·—	·	2b) This action	is non-final.						
3)☐ Since t	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Disposition of C	Claims								
4)⊠ Claim(s	Claim(s) <u>1-13</u> is/are pending in the application.								
4a) Of t	4a) Of the above claim(s) is/are withdrawn from consideration.								
5)⊠ Claim(:	☑ Claim(s) <u>1-8 and 10-13</u> is/are allowed.								
6)⊠ Claim(	☑ Claim(s) <u>9</u> is/are rejected.								
7)⊠ Claim(:	☑ Claim(s) <u>2-5</u> is/are objected to.								
8) Claim(	8) Claim(s) are subject to restriction and/or election requirement.								
Application Pap	ers								
9)⊠ The spe	ecification is objected to by the	ne Examiner.							
10)⊠ The drawing(s) filed on <u>06 November 2003</u> is/are: a) accepted or b)⊠ objected to by the Examiner.									
Applica	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replace	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.									
Priority under 3	5 U.S.C. § 119								
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)☐ Some * c)☐ None of:									
1.🛛 (	1. Certified copies of the priority documents have been received.								
	2. Certified copies of the priority documents have been received in Application No								
	3. Copies of the certified copies of the priority documents have been received in this National Stage								
	application from the International Bureau (PCT Rule 17.2(a)).								
* See the	attached detailed Office action	on for a list of the c	ertified copies no	t received.					
Attachment(s)									
1) Notice of Refe	rences Cited (PTO-892)			Summary (PTO-413)					
2) Notice of Draft	sperson's Patent Drawing Review (			s(s)/Mail Date Informal Patent Application (P	(O-152)				
	sciosure Statement(s) (PTO-1449 o lail Date <u>29 July 2003</u> .	r P1O/SB/08)	6)  Other:		U-102)				

Claim 9 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The term "a lot of cells" in claim 9 is a relative term which renders the claim indefinite. The term "a lot of" is not defined by the claim, the specification does not provide a standard for ascertaining the requisite degree, and one of ordinary skill in the art would not be reasonably apprised of the scope of the invention. How many cells must be present in order to be "a lot of cells" is unclear.

Claims 2-5 are objected to because of the following informalities: In claim 2, before "an excessive state", and in claim 3, before, "shortage", the phrase "being in" is suggested. In claim 4, instead of "appropriateness", "in an appropriate amount" is suggested. In claim 5, "excess" would read better as "excessive". Appropriate correction is required.

The disclosure is objected to because of the following informalities: In figures 1, 3 and 7-9, and on page 8, line 23, the term "hydrogen bomb", which normally refers to a thermonuclear device, is incorrect for the fuel cell art, and appears to be a mistranslation. Is "hydrogen tank" intended? In figure 10, there are two steps numbered "S223", and no step "S233", as on page 26, lines 18 and 19. Appropriate correction is required.

Claims 1-8 and 10-13 are allowed. The prior art, cited either below or by applicants, does not disclose a fuel cell system in which the pressure difference between the two reactants is controlled in response to a state of water in the fuel cell stack.

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Claim 9 is would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action. This claim depends on allowable claim 1.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Vartanian *et al.* (US 5,059,494) discloses a fuel cell in which the pressure difference between the two reactants is controlled during shutdown. Nagamiya *et al.* (US 6,562,501) disclose a fuel cell in which the humidification is controlled in response to pressure. Nelson *et al.* (US 2002/0177017) disclose a fuel cell in which the humidity is controlled via a sensor. Kato *et al.* (US 2002/0142197) disclose a fuel cell in which the pressure of a reaction gas is increased and then decreased in response to residual water. Imamura *et al.* (US 2002/0150802) disclose the evaporation of water therein is controlled.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stephen J. Kalafut whose telephone number is 571-272-1286. The examiner can normally be reached on Mon-Fri 8:00 am-4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick J. Ryan can be reached on 571-272-1292. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

sjk

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